Notice of Allowability	Application No.	Applicant(s)	
	09/732,409	O'DONNEL, JOHN SETEL	
	Examiner	Art Unit	
	Christopher O. Onuaku	2616	E

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.

2. ☒ The allowed claim(s) is/are *1-21*.

3. ☒ The drawings filed on *07 December 2000* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Allowable Subject Matter

1. Claims 1-21 are allowable over the prior art of record.

2. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing method, where the method comprises the step of wherein in the first mode, compressing the video stream using a selected first compression algorithm, creating a record indicating that the recorded, compressed video stream was compressed using the first compression algorithm, and in the second mode, processing the recorded, compressed video stream using a selected video processing algorithm, and modifying

the record to indicate that the recorded, recompressed video stream was processed using the selected video processing algorithm.

Regarding claim 7, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing method, where the method comprises the steps of wherein in the first mode, compressing the video stream using a selected first compression algorithm, creating a record indicating that the recorded, compressed video stream was compressed using the first compression algorithm, and in the second mode, re-compressing the recorded, compressed video stream using a selected second compression, and modifying the record to indicate that the recorded, recompressed video stream was re-compressed using the second compression algorithm.

Regarding claim 10, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing method, where the method comprises the steps of wherein in the first mode, compressing the video stream using a selected compression algorithm, creating a record indicating that the recorded, compressed video stream was compressed using the selected compression algorithm, and in the second mode, enhancing the recorded, compressed video stream using a selected enhancement algorithm, and modifying the record to indicate that the recorded, compressed video stream was enhanced using the selected enhancement algorithm.

Regarding claim 13, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing method, where the method comprises the steps of wherein in the first mode, compressing the video stream using a selected first compression algorithm, creating a record indicating that the recorded, compressed video stream was compressed using the selected first compression algorithm, and in the second mode, processing the recorded, compressed video stream using a selected enhancement algorithm and a selected second compression algorithm, and modifying the record to indicate that the recorded, enhanced, re-compressed video stream was processed using the selected enhancement algorithm and the selected second compression algorithm.

Regarding claim 16, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record

medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing method, where the method comprises the step of wherein in the first mode, compressing the video stream using a selected first compression algorithm, creating a record indicating that the recorded, compressed video stream was compressed using the first compression algorithm, and in the second mode, processing the recorded, compressed video stream using a selected video processing algorithm, and modifying the record to indicate that the recorded, recompressed video stream was processed using the selected video processing algorithm.

Regarding claim 17, the invention relates to digital video recording systems, including digital video recording systems that, in part, compress digital video streams.

The closest references Kimura et al (US 6,768,864), teach an information recording and reproducing apparatus which can reproduce information from a record medium such as an optical disc and the like, and re-record the reproduced information onto the original record medium, and Kassatly (US 5,790,177) teaches a digital transmission signal processing apparatus/method, such as a headend apparatus, and

recording/reproducing system, such as a video cassette recorder, including headend apparatus/method for supplementing or replacing program information with program information from a source local to the headend processor.

However, Kimura et al and Kassatly fail to explicitly disclose a video processing apparatus, where the apparatus comprises wherein operative in the first mode to compress the video stream using a selected first compression algorithm, create a record indicating that the recorded, compressed video stream was compressed using the first compression algorithm, and operative in the second mode to process the recorded, compressed video stream using a selected video processing algorithm, and modify the record to indicate that the recorded, re-compressed video stream was processed using the selected video processing algorithm.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hendricks et al (US 6,675,386) teach the distribution of audiovisual signals through communications networks such as computer networks and servers, including global networks such as the internet and "World Wide Web".

Kaneko et al (US 6,671,454) teach a video record/playback control apparatus capable of simultaneously recording a plurality of contents such as video decks, video servers or the like, including presetting recording control when a plurality of contents during the same time period are preset for recording, and a re-compression process for coded content data.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher O. Onuaku whose telephone number is (703) 308-7555. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached on 703-305-4380. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

COO

10/16/04

TUAI TRAN
PRIMARY EXAMINER